

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC SIGNAL AT MD 5 AND AUTH ROAD IN PRINCE GEORGE'S COUNTY. THE SIGNAL HEADS WILL BE REPLACED AND/OR REMOVED TO ACCOMMODATE THE CLOSURE OF I-95 RAMP 8 FOR THE NORTH AND WESTBOUND MOVEMENTS. THE NORTHBOUND LEFT-TURN MOVEMENT AND THE WESTBOUND THROUGH MOVEMENT WILL BE REMOVED. PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS WILL BE INSTALLED TO CROSS THE NORTH LEG. MD 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT-TURN PHASING FOR SOUTHBOUND TRAFFIC. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED TO CROSS THE NORTH LEG.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND EQUIPMENT WILL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Reblish
District Utility Engineer
Phone: 301-513-7350

Mr. Wayne A. Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

The Power Company Representative is:
Potomac Electric Power Company
8300 Old Marlboro Pike
Upper Marlboro, MD 20772
Phone: 301-961-5325

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CAT CODE	QUANTITY	DESCRIPTION
973023	48.5 SF	SHEET ALUMINUM SIGNS:
		2 EACH - R3-SL (30 IN. X 36 IN.) MAST ARM MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY
		'NORTH, MD 5, RIGHT ARROW' (24 IN. X 51 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY
		'SOUTH, MD 5, LEFT ARROW' (48 IN. X 75 IN.) POLE MOUNT

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CAT CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
585412	425 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585424	140 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000	1 LS	REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
800000	1 EA	REMOVE AND STORE VIDEO DETECTOR CAMERA
801004	1 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	25 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805011	20 LF	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805135	15 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
813015	48.5 SF	INSTALL OVERHEAD SIGN
818010	1 EA	14 FOOT BREAKAWAY PEDESTAL POLE
860272	15 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860278	2 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
860282	2 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT
861104	25 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861105	300 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
861107	300 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
862101	250 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
862102	70 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
865001	2 EA	PUSHBUTTON AND SIGN 'TO CROSS BRANCH AVE'

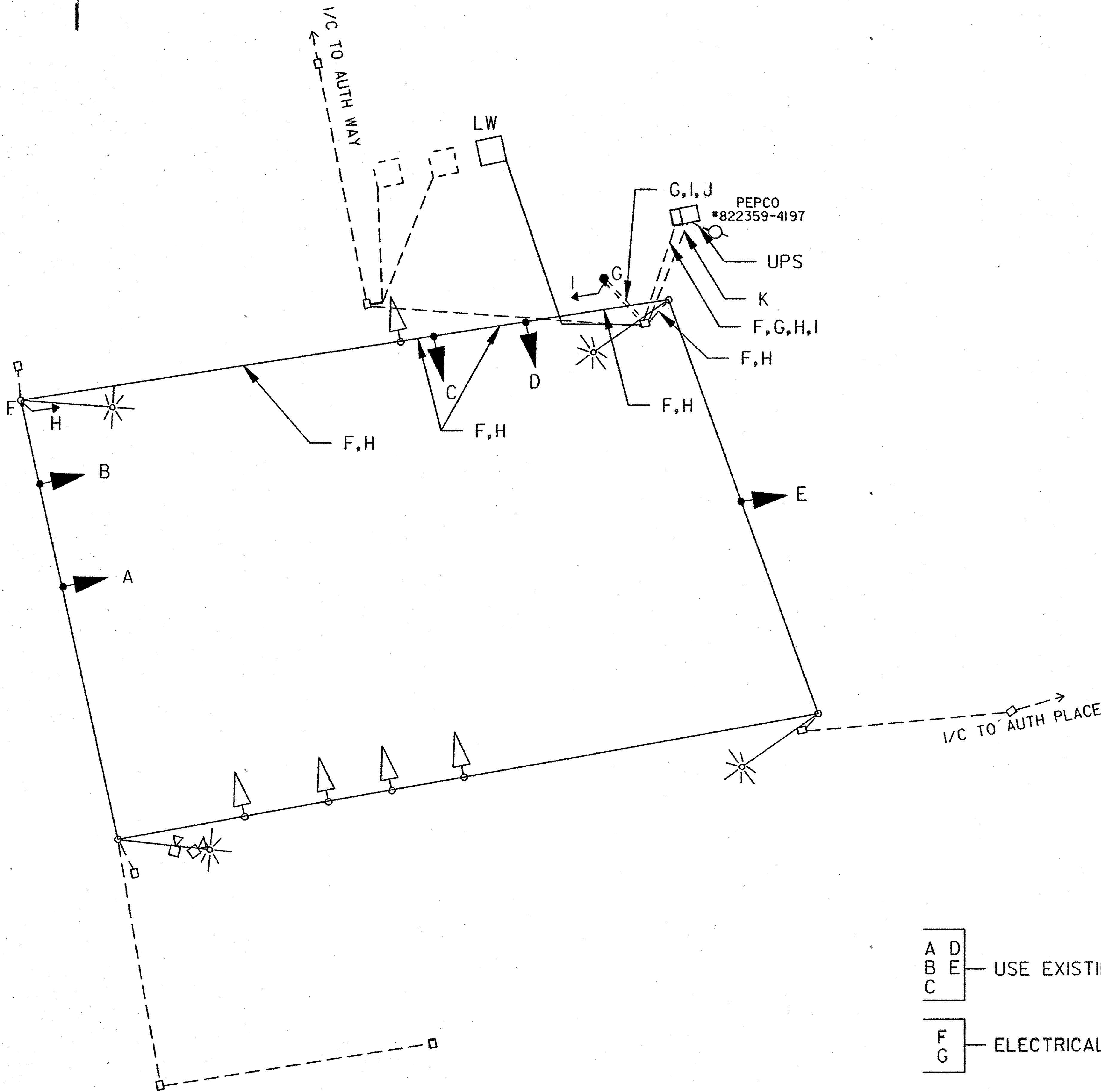
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE	QUANTITY	DESCRIPTION
	1 EA	VIDEO DETECTION CAMERA

- NOTES: 1. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL INSTALL THE VIDEO DETECTION CAMERA AT THE INTERSECTION OF AUTH ROAD AND AUTH PLACE (SEE SP-3).

WIRING DIAGRAM

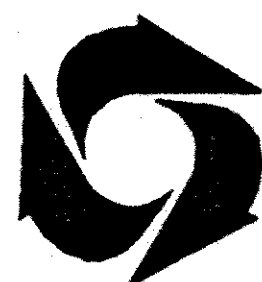


- A D
B E
C — USE EXISTING CABLE
- F
G — ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
- H
I — ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- J — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- K — ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO.14 AWG)
- LW — LOOP WIRE
- UPS — EXISTING POWER SOURCE (UNDERGROUND)
- ☒ — EXISTING VIDEO DETECTOR CAMERA

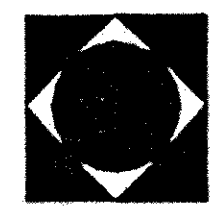
PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	⊙ ⊙ ⊙	
PHASE 2 + 5	R	R	←G←	←G←	←G←	G	G	R	R	R	DW	DW	
PHASE 2 + 5 CHANGE	R	R	←Y←	←Y←	←Y←	Y	Y	R	R	R	DW	DW	
PHASE 2 + 6	G	G	←R←	←R←	←R←	G	G	R	R	R	DW	DW	
PHASE 2 + 6 CHANGE	Y	Y	←R←	←R←	←R←	Y	Y	R	R	R	DW	DW	
PHASE 4	R	R	←R←	←R←	←R←	R	R	G	G	G	DW	DW	
PHASE 4 CHANGE	R	R	←R←	←R←	←R←	R	R	Y	Y	Y	DW	DW	
PHASE 4 ALT	R	R	←R←	←R←	←R←	R	R	G	G	G	W	W	
PEDESTRIAN CLEARANCE	R	R	←R←	←R←	←R←	R	R	G	G	G	FDW	FDW	
PHASE 4 ALT CHANGE	R	R	←R←	←R←	←R←	R	R	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	

SP-2



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 5 (BRANCH AVENUE) AND AUTH ROAD
GENERAL INFORMATION



STV Incorporated

engineers / architects / planners / scientists / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

DRAWN BY: R. KIPP	F.A.P. NO. PG4135172	SEE TITLE SHEET	TS NO. TS-594 F	SHEET NO.
CHECKED BY: B. BIDDLE	S.H.A. NO.	PRINCE GEORGE'S	T.I.M.S. NO. F861	399 OF 410
SCALE: NONE	COUNTY:	LOG MILE: 16000512.17		
DATE: MAY 2005				